

# SOLAR MODULES

## SunRay VI MONO CRYSTALLINE PERC MODULE.

GStech60-6-320-340Wp-PERC-S-10.  
HIGHEST PERFORMANCE THROUGH STATE-OF-THE-ART CELL TECHNOLOGY



### Key features:



5 BUS BAR

#### PERC SOLAR CELL

PERC panels have a higher energy density per square foot and perform well under high temperatures.



Less maintenance

#### HIGH EFFICIENCY

High module conversion efficiency up to 20.77 % through innovative manufacturing technology.



Low Light

#### LOW-LIGHT PERFORMANCE

Advanced glass and solar cell surface texturing allow for excellent performance in low-light environments.



2400 Pa | 5400 Pa

#### SEVERE WEATHER RESILIENCE

Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).



Resistant

#### DURABILITY AGAINST EXTREME ENVIRONMENTAL CONDITIONS

High salt mist and ammonia resistance certified by KIWA.



Performance

#### 25-YEARS LINEAR PERFORMANCE WARRANTY

12-years limited warranty for materials and workmanship. NST guarantees that each module shall deliver the following minimum output as shown in the datasheet for.

# SunRay VI

## MONO CRYSTALLINE PERC MODULE.

GStech60-6-320-340Wp-PERC-S-10.

HIGHEST PERFORMANCE THROUGH STATE-OF-THE-ART CELL TECHNOLOGY

### PHYSICAL PARAMETERS

Solar Cell	Mono-Crystalline PERC 158.75 x 158.75 mm
Cell Configuration	60 cell (10 x 6)
Module Dimension	1670 x 1000 x 35 mm
Weight	17 kg
Superstrate	3.2 mm, High Transmission, Low Iron, Tempered ARC Glass
Substrate	White Backsheet
Frame	Silver Anodized Aluminum Alloy Type 6063T5, Silver Color
J-Box	IP67, 1000VDC, 3 Bypass Diodes
Cables	4.0 sqmm (12AWG), 1000 mm Length (Customer Demand)
Connector	IP67 MC4 or its Compatible

### ELECTRICAL PARAMETERS (STC)

TYPE	NST60-6-320M	NST60-6-325M	NST60-6-330M	NST60-6-335M	NST60-6-340M
Rated maximum power at STC (Wp)	320	325	330	335	340
Open circuit voltage Voc (V)	40.7	40.9	41.1	41.3	41.5
Maximum power voltage Vmpp (V)	33.3	33.5	33.7	33.9	34.1
Short circuit current Isc (A)	9.98	10.08	10.18	10.22	10.28
Maximum power current Imp (A)	9.61	9.71	9.80	9.89	9.98
Module efficiency (%)	19.55	19.85	20.16	20.46	20.77

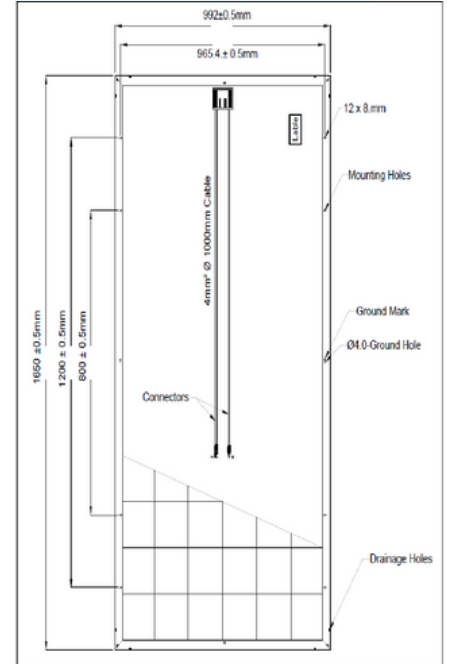
STC: Irradiance 1000W/m<sup>2</sup>, cell temperature 25°C, air mass 1.5

### ELECTRICAL PARAMETERS (NOCT)

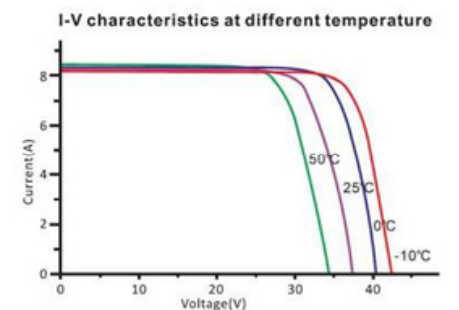
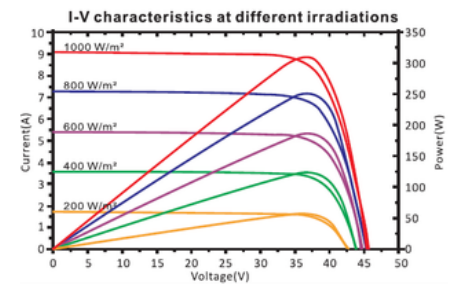
TYPE	NST60-6-320M	NST60-6-325M	NST60-6-330M	NST60-6-335M	NST60-6-340M
Max power (Pmax) [W]	<b>240</b>	<b>244</b>	<b>248</b>	<b>252</b>	<b>256</b>
Open circuit voltage (Voc) [V]	39.7	39.9	40.1	40.3	40.5
Max power voltage (Vmp) [V]	31.9	32.1	32.3	32.5	32.7
Short circuit current (Isc) [A]	7.96	8.05	8.14	8.23	8.32
Max power current (Imp) [A]	7.53	7.61	7.68	7.76	7.83

NOCT: Under normal operating cell temperature, irradiance of 800 W/m<sup>2</sup>, spectrum AM 1.5, ambient temperature 20°C, wind speed 1m/s

### DIMENSION OF PV MODULE UNIT



### I-V CURVE



## SunRay VI

### MONO CRYSTALLINE PERC MODULE.

GStech60-6-320-340Wp-PERC-S-10.

HIGHEST PERFORMANCE THROUGH STATE-OF-THE-ART CELL TECHNOLOGY

#### TEMPERATURE COEFFICIENT AND PARAMETERS

Nominal Operating Cell Temperature (NOCT)	45°C ± 2°C
Temperature Coefficient of Pmax	-0.39%/°C
Temperature Coefficient of Voc	-0.32%/°C
Temperature Coefficient of Isc	0.055%/°C
Operating Temperature	-45°C~+85°C
Maximum System Voltage	1000VDC
Limiting Reverse Current	15A
Maximum Series Fuse Rating	15A
Power Tolerance (W)	0/+3%
Application Class	Class A
Wind and Snow Front Load	Up to 5,400 Pa
Wind Back Load	2,400 Pa

#### PACKAGING CONFIGURATION

	40ft	20ft
Number of Modules per Container	840	360
Number of Modules per Pallet	30	30
Number of Pallets per Container	28	12
Box Dimension (L x W x H) in mm	1680 x 1090 x 1120	1680 x 1090 x 1120
Box Gross Weight (Kg)	580	580

